



NCR: Yes / No

## **WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: Date:

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| Work Order: _____  |      |      |     | DISPOSITION   |  | AGAINST DEPARTMENT/PROCESS         |  |                                      |              |  |  |
|--|------|------|-----|---|--|------------------------------------|--|--------------------------------------|--------------|--|--|
|  |      |      |     | Rework <input type="checkbox"/>   | Skid-tube <input type="checkbox"/>     | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/>           | Engineering <input type="checkbox"/> |              |  |  |
|  |      |      |     | Scrap <input type="checkbox"/>  | Machining <input type="checkbox"/>     | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/>    | Quality <input type="checkbox"/>     |              |  |  |
|  |      |      |     | Use-as-is <input type="checkbox"/>  | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>       |              |  |  |
|  |      |      |     | Work Order Update <input type="checkbox"/>  | Large Fab <input type="checkbox"/>     | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/>            |                                      |              |  |  |
| Root Cause   | Date | Step | Qty | Description of work order update or Non-conformance   | Initial Chief Eng                      | Action Description                 | Sign & Date                                  | Verification                         | QC Inspector |  |  |
| Doc/Data   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Equip/Tooling  |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Operator   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Material   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Setup  |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Other  |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Process  |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Supplier   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Training   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Unapproved   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| FAULT CATEGORY   |      |      |     |   |  |                                    |  |                                      |              |  |  |
| Landing Gear   |      |      |     | General   |  |                                    |  |                                      |              |  |  |
| <input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      |     | <input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio   |  |                                    |  |                                      |              |  |  |
|  |      |      |     | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |  |                                    |  |                                      |              |  |  |
|  |      |      |     | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge  |  |                                    |  |                                      |              |  |  |
|  |      |      |     | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled   |  |                                    |  |                                      |              |  |  |
|  |      |      |     | <input type="checkbox"/> Other  |  |                                    |  |                                      |              |  |  |

**Work Order ID 98354**

March-12-13 1:48:15 PM

**\*98354\***

Page 2

Item ID: D3935-2

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

Item Name: Pylon Protector

Stop

**\*NS2\***

Start Date: 3/19/13

Start Qty: 1.00

**\*1\***

Cust Item ID:

Required Date: 3/22/13

Req'd Qty: 1.00

**\*1\***

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

**\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop

**\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120

**\*120\***

QC

Quality Control

QC8- Inspect parts - second check

0.00

0.00

0.00

0.00

0.00

0.00

0.00

130

**\*130\***

Packaging

Packaging

Identify as per dwg &amp; Stock Location:

0.00

0.00

0.00

0.00

0.00

140

**\*140\***

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

0.00

0.00

0.00

*PC 13/5/29 ①**13/5/29 ②**PC 13-04-30*

NCR: Yes / No

## **WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: Date:

OA Closed: Date:

| Work Order: _____            |                |         |     | DISPOSITION   |  | AGAINST DEPARTMENT/PROCESS                       |  |                                 |                      |                    |  |
|------------------------------|----------------|---------|-----|---|--|--|--|---------------------------------|----------------------|--------------------|--|
|                              |                |         |     | Rework<br>Scrap<br>Use-as-is<br>Work Order Update   | Skid-tube<br>Machining<br>Thermoforming<br>Large Fab | Crosstube<br>Small Fab<br>Finishing<br>Composite | Water Jet<br>Prod. Eng. Coor.<br>Rec/Store/Packaging<br>Supplier | Engineering<br>Quality<br>Other |                      |                    |  |
| Part No. _____               |                |         |     |   |  |  |  |                                 |                      |                    |  |
| NCR No. _____                |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Root Cause                   | Date           | Step    | Qty | Description of work order update or Non-conformance | Initial Chief Eng                                    | Action Description                               | Sign & Date  | Verification                    | QC Inspector         |                    |  |
| Doc/Data                     |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Equip/Tooling                |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Operator                     |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Material                     |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Setup                        |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Other                        |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Process                      |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Supplier                     |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Training                     |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Unapproved                   |                |         |     |   |  |  |  |                                 |                      |                    |  |
| FAULT CATEGORY               |                |         |     |   |  |  |  |                                 |                      |                    |  |
| Landing Gear                 |                |         |     | General   |  |  |  |                                 |                      |                    |  |
| Bending                      | General        |         |     | Grain   | General  |  |  | Ovalized                        | Pressure/Forced      |                    |  |
| Centre Not Concentric to O/S | Bend           | General |     |   | Hardware   | General  |  |                                 | Over/Under tolerance | Temperature/Cure   |  |
| Cracks                       | BOM/Route      | General |     |   | Inspection Incomplete                                | General  |  |                                 | Part Incorrect       | Weld               |  |
| Crushed/Crimped              | Broken/Damaged | General |     |   | Instructions Incomplete/Unclear                      | General  |  |                                 | Part Lost/Missing    | Wrong Stock Pulled |  |
| Cuffs                        | Burrs          | General |     |   | Maintenance  | General  |  |                                 | Part Moved           |                    |  |
| Heat Treat                   | Contamination  | General |     |   | Mislabeled   | General  |  |                                 | Positioned Wrong     |                    |  |
| Inspection Strip in Tube     | Countersink    | General |     |   | Misread  | General  |  |                                 | Power Loss/Surge     |                    |  |
| Ripples in Bend              | Cut Too Short  | General |     |   | Offset   | General  |  |                                 |                      |                    |  |
| Torque Waves in Extrusion    | Drill Holes    | General |     |   | Out of Calibration                                   | General  |  |                                 |                      |                    |  |
| Turning Sequence             | Drawing        | General |     |   | Out of Sequence                                      | General  |  |                                 |                      |                    |  |
| Wave/Twist in Tube           | Finish         | General |     |   | Outside Dimensions                                   | General  |  |                                 |                      |                    |  |
|                              | Folio          | General |     |   |  | General  |  |                                 |                      |                    |  |

# Picklist Print

March-12-13 1:48:14 PM

Page 1

Work Order ID: 98354

Parent Item: D3935-2

Parent Item Name: Pylon Protector

Start Date: 3/19/13

Required Date: 3/22/13

Start Qty: 1.00

Required Qty: 1.00

## Comments:

| Component Item ID/<br>Item Name                | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty      | Qty<br>Issued | Date<br>Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|-------------------|---------------|----------------|--------|
| MLEXS.125-F60029-04<br>GE PLASTICS LEXAN SHEET |                        | Purchased     | No          |                     |                  | 100             | sf                 | 2,330.6640     | 8.69        | 9.1473684<br>10.0 |               | JM348          |        |

| Location | Loc Qty  | Loc Code |
|----------|----------|----------|
| MAT018   | 2330.664 |          |
| 124654   | 666.664  |          |
| 124866   | 1664     | 124654   |

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

| Work Order: _____   |      |      | DISPOSITION   |   |  | AGAINST DEPARTMENT/PROCESS   |   |              |              |  |  |   |  |
|---|------|------|---|---|--|--|---|--------------|--------------|--|--|---|--|
|   |      |      | Rework<br><input type="checkbox"/><br>Scrap<br><input type="checkbox"/><br>Use-as-is<br><input type="checkbox"/><br>Work Order Update<br><input type="checkbox"/> | Skid-tube<br><input type="checkbox"/><br>Machining<br><input type="checkbox"/><br>Thermoforming<br><input type="checkbox"/><br>Large Fab<br><input type="checkbox"/>  | Crosstube<br><input type="checkbox"/><br>Small Fab<br><input type="checkbox"/><br>Finishing<br><input type="checkbox"/><br>Composite<br><input type="checkbox"/> | Water Jet<br><input type="checkbox"/><br>Prod. Eng. Coor.<br><input type="checkbox"/><br>Rec/Store/Packaging<br><input type="checkbox"/><br>Supplier<br><input type="checkbox"/> | Engineering<br><input type="checkbox"/><br>Quality<br><input type="checkbox"/><br>Other<br><input type="checkbox"/>   |              |              |  |  |   |  |
| Part No. _____<br>NCR No. _____   |      |      |   |   |  |  |   |              |              |  |  |   |  |
| Root Cause  | Date | Step | Qty   | Description of work order update or Non-conformance   | Initial Chief Eng  | Action Description   | Sign & Date   | Verification | QC Inspector |  |  |   |  |
| Doc/Data<br><input type="checkbox"/><br>Equip/Tooling<br><input type="checkbox"/><br>Operator<br><input type="checkbox"/><br>Material<br><input type="checkbox"/><br>Setup<br><input type="checkbox"/><br>Other<br><input type="checkbox"/><br>Process<br><input type="checkbox"/><br>Supplier<br><input type="checkbox"/><br>Training<br><input type="checkbox"/><br>Unapproved<br><input type="checkbox"/>  |      |      |   |   |  |  |   |              |              |  |  |   |  |
| FAULT CATEGORY  |      |      |   |   |  |  |   |              |              |  |  |   |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      |   | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |  |  | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |              |              | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge |  | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled |  |

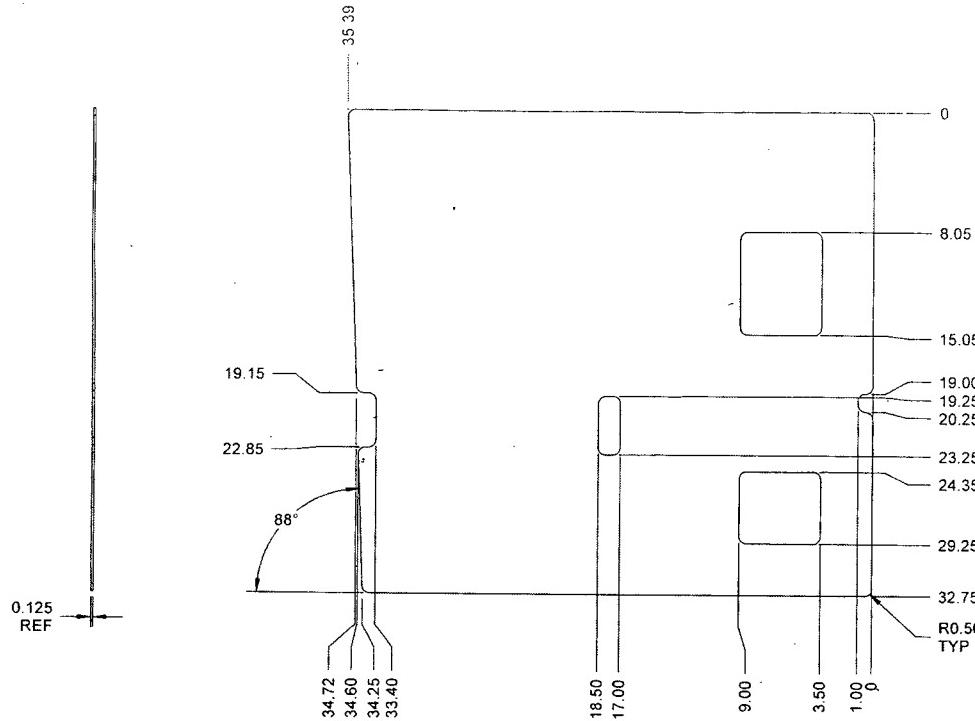
|                                       |              |             |
|---------------------------------------|--------------|-------------|
| DART AEROSPACE LTD                    | Work Order:  | 98354       |
| Description: Pylon Wall Protector, RH | Part Number: | D3935-2     |
| Inspection Dwg: D3935      Rev: B     |              | Page 1 of 1 |

# FIRST ARTICLE INSPECTION CHECKLIST

145

|              |        |             |         |                       |     |
|--------------|--------|-------------|---------|-----------------------|-----|
| Measured by: | Jm     | Audited by: | 27<br>9 | Preliminary Approval: | N/A |
| Date:        | 13-4-8 | Date:       | 13-4-9  | Date:                 | N/A |

| Rev | Date     | Change          | Revised by | Approved |
|-----|----------|-----------------|------------|----------|
| A   | 09.06.22 | New Issue       | KJ         |          |
| B   | 10.08.18 | Dwg Rev updated | KJ         |          |



**D3935-1 PYLON WALL PROTECTOR, LH**  
(TEXTURED SIDE SHOWN)

**A NOTES:**

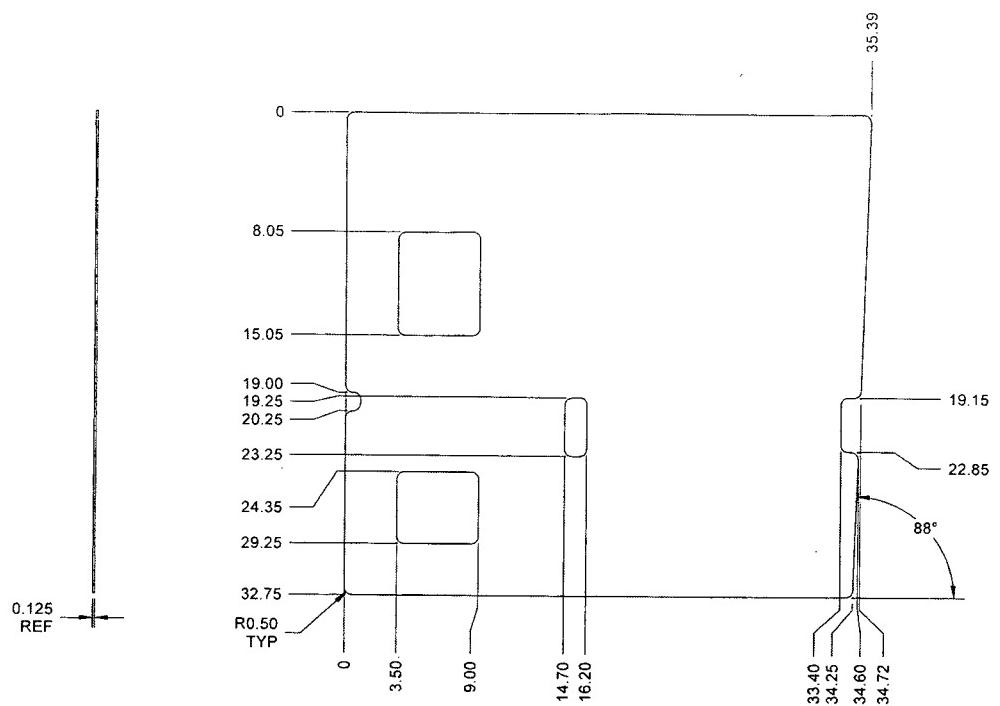
- 1) MATERIAL: F60029-GY3778 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE) 0.125 THICK  
REF DART SPEC MLEXS.125-F60029-04
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3935-1" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 5.79 lbs
- 8) CHECK PER TEMPLATE DT8922

SHO  
RJ  
ENG  
UNCONTR  
SUBJECT  
WITHIN  
WORK OR  
NO 98354 MCS  
13-03-14

**RELEASED**  
2009-10-22  
M4

|            |                        |   |
|------------|------------------------|---|
| B          | ADD -3, 4 (SHEET 3, 4) | 09.08.19  |
| A          | NEW ISSUE              | HS 09.04.21   |
| REV.       | DESCRIPTION            | BY DATE   |
| DESIGN     | <i>AB</i>              | DART AEROSPACE LTD  |
| DRAWN      | <i>AB</i>              | HAWKESBURY, ONTARIO, CANADA   |
| CHECKED    | <i>MH</i>              | DRAWING NO. REV. B  |
| MFG. APPR. | <i>AB</i>              | D3935 SHEET 1 OF 4  |
| APPROVED   | <i>AB</i>              | TITLE SCALE   |
| DE APPR.   | <i>AB</i>              | PYLON PROTECTOR NTS   |
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98359



D3935-2 PYLON WALL PROTECTOR, RH  
(TEXTURED SIDE SHOWN)

RELEASED  
2009-10-22  
*[Handwritten signature]*

NOTES:

- 1) MATERIAL: F60029-GY3778 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE) 0.125 THICK  
REF DART SPEC MLEXS.125-F60029-04
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3935-2" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 5.79 lbs
- 8) CHECK PER TEMPLATE DT8923

|            |                    |                                 |  |
|------------|--------------------|---------------------------------|--|
| DESIGN     | <i>[Signature]</i> | DART AEROSPACE LTD              |  |
| DRAWN      | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA     |  |
| CHECKED    | <i>[Signature]</i> | DRAWING NO.                     |  |
| MFG. APPR. | <i>[Signature]</i> | REV. B                          |  |
| APPROVED   | <i>[Signature]</i> | D3935                           |  |
| DE APPR.   | <i>[Signature]</i> | SHEET 2 OF 4                    |  |
| DATE       | 09.08.19           | TITLE<br>PYLON PROTECTOR<br>NTS |  |

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8

7

6

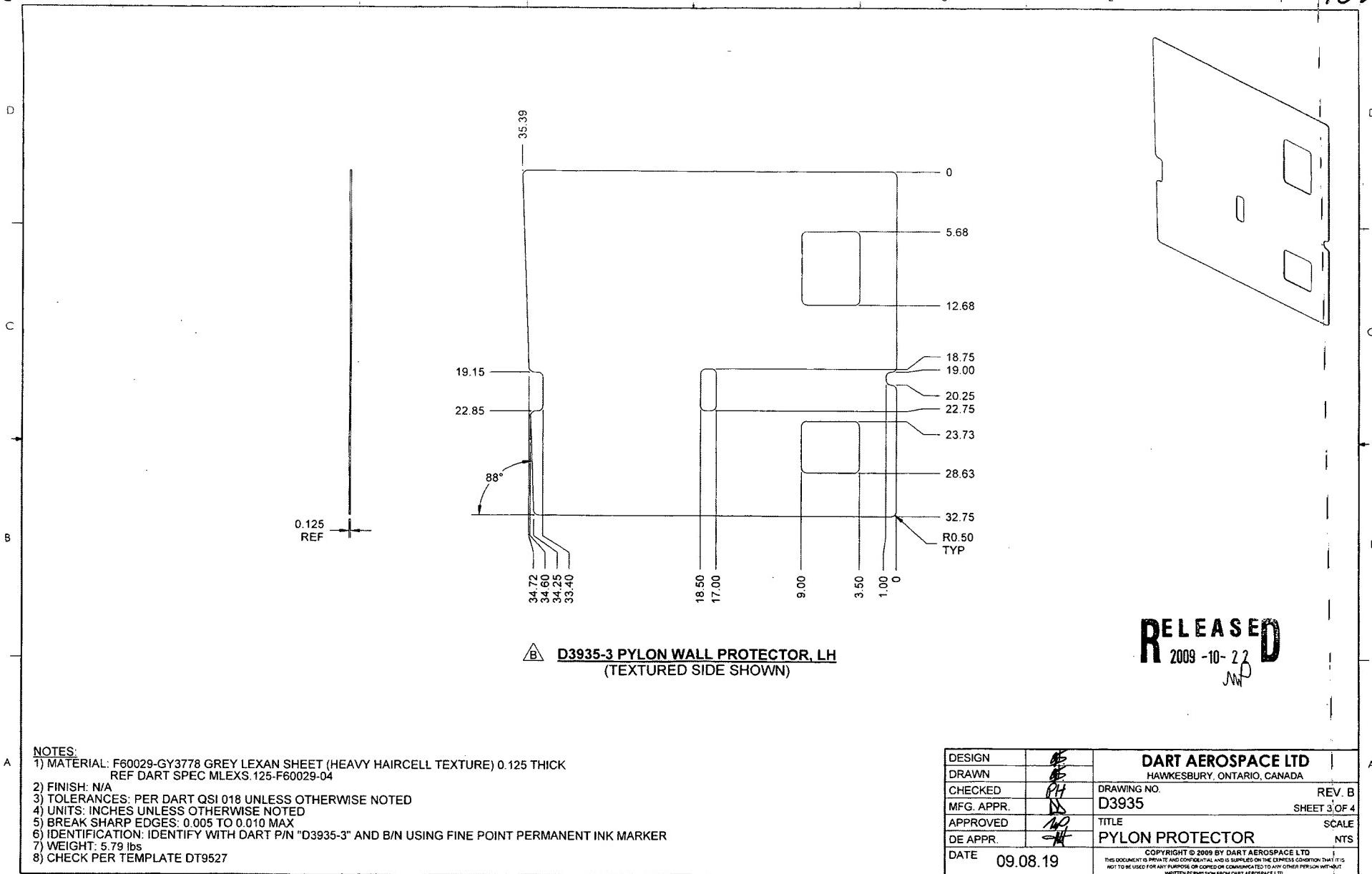
5

4

3

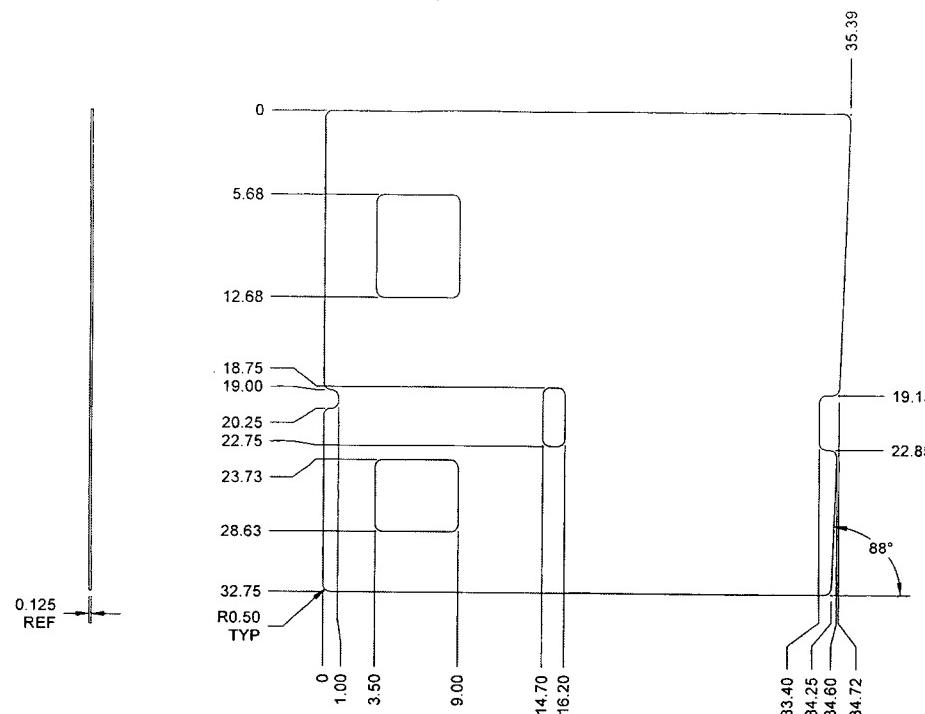
2

9835Y



|            |           |   |
|------------|-----------|---|
| DESIGN     | <i>AS</i> | DART AEROSPACE LTD  |
| DRAWN      | <i>AS</i> | HAWKSLEY, ONTARIO, CANADA   |
| CHECKED    | <i>PH</i> | DRAWING NO.   |
| MFG. APPR. | <i>DA</i> | D3935   |
| APPROVED   | <i>MP</i> | REV. B  |
| DE APPR.   | <i>SH</i> | SHEET 3 OF 4  |
| DATE       | 09.08.19  | TITLE<br>PYLON PROTECTOR  |
|            |           | SCALE<br>NTS  |
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98354



**D3935-4 PYLON WALL PROTECTOR, RH**  
(TEXTURED SIDE SHOWN)

RELEASED  
2009-10-22  
JMO

## NOTES:

- 1) MATERIAL: F60029-GY3778 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE) 0.125 THICK  
REF DART SPEC MLEXS.125-F60029-04
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3935-4" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 5.79 lbs
- 8) CHECK PER TEMPLATE DT9528

|            |                    |   |
|------------|--------------------|---|
| DESIGN     | <i>[Signature]</i> | DART AEROSPACE LTD  |
| DRAWN      | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA   |
| CHECKED    | <i>[Signature]</i> | DRAWING NO.   |
| MFG. APPR. | <i>[Signature]</i> | D3935   |
| APPROVED   | <i>[Signature]</i> | REV. B  |
| DE APPR.   | <i>[Signature]</i> | SHEET 4 OF 4  |
| DATE       | 09.08.19           | TITLE<br>PYLON PROTECTOR  |
|            |                    | SCALES<br>NTS   |
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